

UNITED STATES DEPARTMENT OF THE INTERIOR
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Preliminary audio-magnetotelluric results for
part of the Wallace 1° x 2° quadrangle, Montana and Idaho

By

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This report is preliminary and has not been
reviewed for conformity with U.S. Geological
Survey editorial standards.

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DISCUSSION

This open-file report includes four 35-mm slides that present some results from audio-magnetotelluric (AMT) data in the northwestern part of the Wallace 1° x 2° quadrangle. The apparent resistivity map, apparent resistivity soundings, and resistivity sections shown in these slides are part of the data that will make up the Wallace Conterminous United States Mineral Resource Assessment Program (CUSMAP) folio. Geographic locations and generalized geology for the apparent resistivity map and location of the sections can be obtained by projecting slide 2 on the generalized geologic map of the Wallace 1° x 2° quadrangle, (Harrison and others, 1982).

The four slides in this open-file report are:

1. AMT apparent resistivity sounding curves at stations 97 and 100.
2. Audio-magnetotelluric apparent resistivity map at 7.5 Hz.
3. AMT resistivity cross-section (A-A') compared to geologic cross-section (AA-AA').
4. AMT resistivity cross-sections B-B', C-C', D-D', E-E', and F-F'.

REFERENCE CITED

Harrison, J. E., Griggs, A. B., and Wells, J. D., 1982, Generalized geologic map of the Wallace 1° x 2° quadrangle, Montana and Idaho: U.S. Geological Survey Miscellaneous Field Studies Map, MF-1354-A, scale 1:250,000.